

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/589,777A DATE: 01/04/2001  
 TIME: 17:11:38

Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\01042001\I589777A.raw

4 <110> APPLICANT: Sukhatme, Vikas P.  
 6 <120> TITLE OF INVENTION: Anti-Angiogenic Peptides and Methods of  
 7 Use Thereof  
 9 <130> FILE REFERENCE: 1440.1023-011  
 11 <140> CURRENT APPLICATION NUMBER: US 09/589,777A  
 12 <141> CURRENT FILING DATE: 2000-06-08  
 14 <150> PRIOR APPLICATION NUMBER: PCT/US98/26057  
 15 <151> PRIOR FILING DATE: 1998-11-16  
 17 <150> PRIOR APPLICATION NUMBER: US 60/108,536  
 18 <151> PRIOR FILING DATE: 1998-04-22  
 20 <150> PRIOR APPLICATION NUMBER: US 60/082,663  
 21 <151> PRIOR FILING DATE: 1998-04-22  
 23 <150> PRIOR APPLICATION NUMBER: US 60/067,888  
 24 <151> PRIOR FILING DATE: 1997-12-07  
 26 <160> NUMBER OF SEQ ID NOS: 23  
 28 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 30 <210> SEQ ID NO: 1  
 31 <211> LENGTH: 555  
 32 <212> TYPE: DNA  
 33 <213> ORGANISM: Mus musculus  
 35 <220> FEATURE:  
 36 <221> NAME/KEY: misc\_feature  
 37 <222> LOCATION: (1)...(525)  
 38 <223> OTHER INFORMATION: protein EM1  
 40 <221> NAME/KEY: misc\_feature  
 41 <222> LOCATION: (1)...(501)  
 42 <223> OTHER INFORMATION: protein EM2  
 44 <221> NAME/KEY: CDS  
 45 <222> LOCATION: (1)...(552).  
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 49 His Thr His Gln Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn  
 50 1 5 10 15  
 52 acc ccc ctg tct gga ggc atg cgt ggt atc cgt gga gca gat ttc cag 96  
 53 Thr Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln  
 54 20 25 30  
 56 tgc ttc cag caa gcc cga gcc gtg ggg ctg tgg ggc acc ttc cgg gct 144  
 57 Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ser Gly Thr Phe Arg Ala  
 58 35 40 45  
 60 ttc ctg tcc tct agg ctg cag gat ctc tat agc atc gtg cgc cgt gct 192  
 61 Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala  
 62 50 55 60  
 64 gac cgg ggg tct gty ccc atc gtc aac ctg aag gac gag gtg cta tct 240  
 65 Asp Arg Gly Ser Val Pro Ile Val Asn Leu Lys Asp Glu Val Leu Ser  
 66 65 70 75 80  
 68 ccc agc tgg gac tcc ctg ttt tct ggc tcc cag ggt caa ctg caa ccc 288  
 69 Pro Ser Trp Asp Ser Leu Phe Ser Gly Ser Gln Gly Gln Leu Gln Pro

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70          85          90          95
72 ggg gcc cgc atc ttt tct ttt gac ggc aga gat gtc ctg aga cac cca 336
73 Gly Ala Arg Ile Phe Ser Phe Asp Gly Arg Asp Val Leu Arg His Pro
74          100          105          110
76 gcc tgg ccg cag aag agc gta tgg cac ggc tgg gac ccc agt ggg cgg 384
77 Ala Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Ser Gly Arg
78          115          120          125
80 agg ctg atg gag aqt tac tgt gag aca tgg cga act gaa act act ggg 432
81 Arg Leu Met Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Thr Thr Gly
82          130          135          140
84 gct aca ggt cag gcc tcc tcc ctg ctg tca ggc agg ctc ctg gaa cag 480
85 Ala Thr Gly Gln Ala Ser Ser Leu Leu Ser Gly Arg Leu Leu Glu Gln
86          145          150          155          160
88 aaa gct gcg agc tgc cac aac agc tac atc gtc ctg tgc att gag aat 528
89 Lys Ala Ala Ser Cys His Asn Ser Tyr Ile Val Leu Cys Ile Glu Asn
90          165          170          175
92 agc ttc atg acc tct ttc tcc aaa tag 555
93 Ser Phe Met Thr Ser Phe Ser Lys
94          180
97 <210> SEQ ID NO: 2
98 <211> LENGTH: 184
99 <212> TYPE: PRT
100 <213> ORGANISM: Mus musculus
102 <400> SEQUENCE: 2
103 His Thr His Gln Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn
104 1 5 10 15
105 Thr Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln
106 20 25 30
107 Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ser Gly Thr Phe Arg Ala
108 35 40 45
109 Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala
110 50 55 60
111 Asp Arg Gly Ser Val Pro Ile Val Asn Leu Lys Asp Glu Val Leu Ser
112 65 70 75 80
113 Pro Ser Trp Asp Ser Leu Phe Ser Gly Ser Gln Gly Glu Leu Gln Pro
114 85 90 95
115 Gly Ala Arg Ile Phe Ser Phe Asp Gly Arg Asp Val Leu Arg His Pro
116 100 105 110
117 Ala Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Ser Gly Arg
118 115 120 125
119 Arg Leu Met Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Thr Thr Gly
120 130 135 140
121 Ala Thr Gly Gln Ala Ser Ser Leu Leu Ser Gly Arg Leu Leu Glu Gln
122 145 150 155 160
124 Lys Ala Ala Ser Cys His Asn Ser Tyr Ile Val Leu Cys Ile Glu Asn
125 165 170 175
127 Ser Phe Met Thr Ser Phe Ser Lys
128 180
129 <210> SEQ ID NO: 3

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130 <211> LENGTH: 26
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Oligonucleotide
137 <400> SEQUENCE: 3
138 ggcataatgca tactcatcag gacttt                26
140 <210> SEQ ID NO: 4
141 <211> LENGTH: 26
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Oligonucleotide
148 <400> SEQUENCE: 4
149 aactcgagct atttggagaa agaggt                26
151 <210> SEQ ID NO: 5
152 <211> LENGTH: 24
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Leader peptide on protein produced by prokaryotic
158     expression system pET17b, mouse endostatin begins
159     immediately after.
161 <400> SEQUENCE: 5
162 Met Gly His His His His His His His His Ser Ser Gly His
163   1           5           10           15
165 Ile Asp Asp Asp Asp Lys His Met
166           20
168 <210> SEQ ID NO: 6
169 <211> LENGTH: 28
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Oligonucleotide
177 <400> SEQUENCE: 6
178 aagcgccgc ctatttggag aaagaggt                28
180 <210> SEQ ID NO: 7
181 <211> LENGTH: 21
182 <212> TYPE: PRT
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: Leader peptide on protein produced by prokaryotic
187     expression system pET28a, mouse endostatin begins
188     immediately after.
190 <400> SEQUENCE: 7
191 Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
192   1           5           10           15
194 Arg Gly Ser His Met
195           20

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197 <210> SEQ ID NO: 8
198 <211> LENGTH: 33
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Oligonucleotide
205 <400> SEQUENCE: 8
206 ttccatatgc atactcatca ggactttcag cca
208 <210> SEQ ID NO: 9
209 <211> LENGTH: 35
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Oligonucleotide
216 <400> SEQUENCE: 9
217 ttacgcggccg cctactcaat gcacaggacg atgta
219 <210> SEQ ID NO: 10
220 <211> LENGTH: 38
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Oligonucleotide
227 <400> SEQUENCE: 10
228 ttacgcggccg cctagtgtg gcagctcgca gctttctg
230 <210> SEQ ID NO: 11
231 <211> LENGTH: 26
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Oligonucleotide
238 <400> SEQUENCE: 11
239 ggggaattcca tactcatcag gacttt
241 <210> SEQ ID NO: 12
242 <211> LENGTH: 32
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Oligonucleotide
249 <400> SEQUENCE: 12
250 aagaattcca tcatcatcat catcacagea gc
252 <210> SEQ ID NO: 13
253 <211> LENGTH: 26
254 <212> TYPE: PRT
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Leader peptide on protein produced by eukaryotic
259 yeast expression system pPIC2aA, mouse endostatin
260 protein begins immediately after.
262 <400> SEQUENCE: 13

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263 Glu Phe Met Gly His His His His His His His His His Ser Ser
264 1 5 10 15
266 Gly His Ile Asp Asp Asp Lys His Met
267 20 25
269 <210> SEQ ID NO: 14
270 <211> LENGTH: 44
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Oligonucleotide
277 <400> SEQUENCE: 14
278 ttggaattcg cccacagcca ccgcgacttc cagccggtgc tcca 44
280 <210> SEQ ID NO: 15
281 <211> LENGTH: 44
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Oligonucleotide
288 <400> SEQUENCE: 15
289 aaaagcgccc gctacttgg aggcagtcac gaagcttttc tcaa 44
291 <210> SEQ ID NO: 16
292 <211> LENGTH: 51
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Oligonucleotide
299 <400> SEQUENCE: 16
300 ttttttgaat tcatttcaag tgccaattat gagaagcctg ctctgcattt g 51
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303 <211> LENGTH: 50
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Oligonucleotide
310 <400> SEQUENCE: 17
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313 <210> SEQ ID NO: 18
314 <211> LENGTH: 24
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Oligonucleotide
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324 <210> SEQ ID NO: 19
325 <211> LENGTH: 24
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/589,777A

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